2631

### **CERTIFICATE OF MAILING**

I hereby contify that the Correspondence is being deposited with the United States Postal Service as first class mail in an envelope address at it. Assistant Commissioner for Patents, Washington, D.C. 20231, on November 6, 2001.

DEC 1 0 2001

Attorney for Applicant

Technology Center 2

PATENT Docket No. 2807.2.23

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

71	2M	
12	10	Δ

Applicant:

Michael H. Myers

12-12-0

Serial No.:

09/922,095

Art Unit:

Filing Date:

August 3, 2001

) 2631

For:

CODE-DIVISION, MINIMUM-SHIFT-KEYING

OPTICAL MULTIPLEXING

## **INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

This Information Disclosure Statement discloses information which has come to the attention of Applicant and/or his attorneys and is being submitted so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56. In accordance with 37 C.F.R. § 1.97(b), this Statement is being filed within three (3) months of the filing date of the above-identified application or before the mailing date of a first Action on the merits.

Neither applicant nor his attorneys make any representation that any information disclosed herein may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103. Moreover, pursuant to 37 C.F.R. § 1.97, the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made or as an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

In accordance with 37 C.F.R. § 1.98, this Information Disclosure Statement includes and is accompanied by:

- A completed copy of Form PTO-1449 listing the patents, publications and other information being submitted for consideration; and
- A legible copy of each patent, publication and other item of information in written form listed on the enclosed Form PTO-1449.

DATED this 6th day of November, 2001.

Respectfully submitted,

Gary D.E. Pierce

Reg. No. 38,019

Attorney for Applicant(s)

Date: November 6, 2001

PATE PIERCE & BAIRD Bank One Tower 50 West Broadway, Suite 900 Salt Lake City, Utah 84101 Telephone: (801) 530-5090



RECEIVED

DEC 1 0 2001

Technology Genter 2600

LIST OF PATENTS AND
PUBLICATIONS
FOR APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

(use several sheets if necessary)

Michael H. Myers

### REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	A1	6,111,679	08/29/2000	Fishman	359/173	04/21/98
	A2	5,938,309	08/17/1999	Taylor	357/124	03/18/97
	АЗ	5,894,362	04/13/1999	Onaka et al.	359/124	08/19/96
	A4	5,784,184	07/21/1998	Alexander et al.	359/125	06/24/96
	A5	5,754,322	05/19/1998	lshikawa et al.	359/135	01/08/97
	A6	5,726,784	03/10/1998	Alexander et al.	359/125	03/29/96
	A7	5,691,832	11/25/1997	Liedenbaum et al.	359/115	08/01/94
	A8	5,644,665	07/01/1997	Burns et al.	385/3	07/27/95
	A9	5,553,098	09/03/1996	Cochran et al.	375/324	04/12/94
	A10	5,504,609	04/02/1996	Alexander et al.	359/125	05/11/95
	A11	5,301,058	04/05/1994	Olshansky	359/188	12/31/90
	A12	5,301,052	04/05/1994	Audouin et al.	359/124	01/24/92
	A13	5,247,491	09/21/1993	Kwiatkowski	368/79	07/30/92
	A14	5,168,534	12/01/1992	McBrien et al.	385/3	12/09/91
	A15	5,101,450	03/31/1992	Olshansky	385/3	01/23/91
	A16	4,989,200	01/29/1991	Olshansky et al.	370/3	12/22/88
	A17	4,959,826	09/25/1990	Smith	370/1	06/26/87
	A18	4,956,834	09/11/1990	Coleman	370/1	01/12/89
	A19	4,882,775	11/21/1989	Coleman	455/617	07/22/88
	A20	4,860,279	08/22/1989	Falk et al.	370/1	11/30/88
	A21	4,807,227	02/21/1989	Fujiwara et al.	370/3	10/15/87

EXAMINER	DATE CONSIDERED



# Page 2 of 42001 Technology Center 2600

### **NON-PATENT DOCUMENTS**

EXAMPLE TO	PAUL	DOCUMENT (Including Author, Title, Source, and Pertinent Pages
	A22	Demonstration of hybrid coherence multiplexing/WDM customer access network, Cahill, et al., OFC '97 <i>Technical Digest</i> , Tuesday Afternoon, pages 58-59.
	A23	Increasing the Transmission Capacity of Coherence Multiplexed Communication Systems by Using Differential Detection, Pendock, et al.; <i>IEEE Photonics Technology Letters</i> , Vol. 7., No. 12, December 1995, pages 1504-1506.
	A24	Photonic CDMA by Coherent Matched Filtering Using Time-Addressed Coding in Optical Ladder Networks, Sampson, et al., <i>IEEE Journal of Lightwave Technology</i> , Vol. 12, No. 11, November 1994, pages 2001-2010.
	A25	Optical Code-Division-Multiplexed Systems Based on Spectral Encoding of Noncoherence Sources, Kavehrad, et al.; <i>IEEE Journal of Lightwave Technology</i> , Vol 13., No. 3, March 1995, pages 534-545.
	A26	Coherence Coding for Photonic Code-Division Multiple Access Networks, Griffin, et al.; <i>IEEE Journal of Lightwave Technology</i> , Vol 13, No. 9, September 1995, pages 1826-1837.
	A27	Path Length Mismatches in a Coherence Multiplexed Fiber-Optic Subcarrier Transmission System, Uehara, et al.; 1997 <i>IEEE publication 0-7803-3905-3/97</i> ; pages 210-213.
	A28	Capacity bounding of coherence multiplexed local area networks due to interferometric noise, Gupta, et al.; <i>IEEE Proc. Optoelectron</i> , Vol 144., No. 2, April 1997, pages 69-74.
	A29	Polarization Independent Bidirectional Fiber Link Using Coherence Multi- Demultiplexing LiNbO3 Integrated Electrooptical Circuits, Hauden, et al.; <i>IEEE Journal of Lightwave Technology</i> , Vol. 14., No. 7, July 1996, pages 1630-1638.
	A30	Linear Phase Tracking in a Coherence Modulation Electrical Sensor System Using Integrated LiNbO3 Modulator/Demodulator, Porte, et al.; <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , Vol. 2., No. 2, June 1996, pages 319-325.
	A31	Multigigabit/s Demultiplexing in Optical Domain Using Coherence Properties of Pulse Trains from multiple, asynchronous mode-locked Lasers, Griffin, et al.; Electronics Letters, Vol. 28, No. 13, June 18, 1992, pages 1202-1203.
	A32	Multiplexage en communication optique par interferometrie a grande difference de marche en lumiere blanceh, Cielo, et al.; <i>Can J. Phys.</i> Vol. 54, 1976, pages 2322-2331.
	A33	Coherent Optical Systems Implemented for Business Traffic Routing and Access: The RACE COBRA Project, Bachus, et al.; <i>IEEE Journal of Lightwave Technology</i> , Vol 14., No. 6, June 1996, pages 1309-1319.

EXAMINER	DATE CONSIDERED



Technology Center 2600 Page 3 of 4

_\	<i>\$</i>
TENT & TRADE	Detection Scheme of Coherence Multiplexed Sensor Signals by Using Optical Loop Incorporating Frequency Shifter, liyama, et al.; <i>Electronics Letters</i> , Vol 28, No. 2, January 16, 1992, pages 169-171.
A3!	Coherence and Noise Properties of Gain-Switched Fabry-Perot Semiconductor Lasers, Griffin et al.; <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , Vol. 1, No. 2, June 1995, pages 569-576.
A36	Hybrid Coherence Multiplexing/Coarse Wavelength-Division Multiplexing Passive Optical Network for Customer Access, Cahill, et al.; <i>IEEE Photonics Technology Letters</i> , Vol. 9, No. 7, July 1997, pp. 1032-1034.
A37	Low Coherence Optical CDMA for LAN, Gupta, et al.; Conference Paper, No. ON2.6, pages 122-123.
A38	Optical coherence multiplexing for interprocessor communications, Chu, et al.; Optical Engineering, March 1991, Vol. 30, No. 3, pages 337-344.
A39	Fiber Optic Subcarrier Transmission Systems Using Coherence Multiplexing Techniques for Broad-Band Distribution Networks, Uehara, et al.; <i>IEICE Trans. Commun.</i> , Vol E80-B., No. 7, July 1997, pages 1027-1034.
A40	Polarization-Independent Transmission on a Single Mode Fiber Using Coherence Modulation of Light; Goedgebuer, et al.; <i>IEEE Journal of Quantum Electronics</i> , Vol. 27, No. 8, August 1991, pages 1963-1967.
A4	Coherence Multiplexing of Fiber-Optic Interferometric Sensors, Brooks et al.; <i>IEEE Journal of Lightwave Technology</i> , Vol. Lt-3, No. 5, October 1985, pages 1062-1071.
A42	Demonstration of Data Transmission Using Coherent Correlation to Reconstruct a Coded Pulse Sequence, Griffin et al.; <i>IEEE Photonics Technology Letters</i> , Vol. 4, No. 5, May 1992, pages 513-515.
A43	Combining code division multiplexing and coherence multiplexing for private communications in optical fiber multiple access networks, Karafolas et al.; Elsevier Science B.V. Optics Communication, January 15, 1996, pages 11-18.
A44	Two TV Channel multimode Fibre Link Using a Single Multilongitudinal Mode Laser Diode (820nm) and Path-Difference Multiplexing, Porte, et al.; <i>Electronics Letters</i> , October 23, 1986, Vol. 22, No. 22, pages 1189-1191.
A45	Security Vulnerability in Coherence Modulation Communication Systems, Wacogne, et al.; <i>IEEE Photonics Technology Letters</i> , Vol 8, No. 3, March 1996, pages 470-472.
A46	Enhanced Security in a Coherence Modulation System Using Optical Path Difference Corruption, Wacogne, et al.; <i>IEEE Photonics Technology Letters</i> , Vol. 8, No. 7, July 1996, pages 947-949.

EXAMINER	DATE CONSIDERED

**RECEIVED** 

DEC 1 0 2001

# Technology Center 2600

Page 4 of 4

		<u> </u>
ATENTET	PAOR ME	Full Bi-directional Fiber Transmission Using Coherence-Modulated Lightwaves; Goedgebuer, et al.; <i>IEEE Journal of Quantum Electronics</i> ; Vol. 28, No. 12, December 1992, pages 2685-2691.
	A48	Coherence Multiplexing Using a Parallel Array of Electrooptical Modulators and Multimode Semiconductor Lasers, Goedgebuer, et al.; <i>IEEE Journal of Quantum Electronics</i> Vol QE: - 23, No. 12, December 1987, pages 2224-2237.
	A49	Demonstration of a single source bidirectional fibre link using polarization insensitive LiNbO3 integrated coherence modulators, Hauden, et al.; <i>Electronics Letters</i> , Vol. 32, No. 8, April 11, 1996, pages 751-752.
	A50	Secrecy improvement in confidential coherence modulation by means of a new keying structure, Wacogne, et al.; 1998 Elsevier Science B.V.; Optics Communications 154, September 15, 1998, pages 350-358.
	A51	Highly unbalanced GaA1As-GaAs integrated Mach=Zehnder inteferometer for coherence modulation at 1.3 µm, Khalfallah, et al.; Elsevier Science B.V., <i>Optics Communications</i> 176 (1999), pages 67-76, August 15, 1999.
	A52	Electrooptic Modulation of Multilongitudinal mode Laser Diodes: Demonstration at 850 nm with Simultaneous Data Transmission by Coherence Multiplexing, Goedgebuer, et al.; <i>IEEE Journal of Quantum Electronics</i> , Vol QE-23, No. 7, July 1987, pages 1135-1344.
	A53	Choosing Relative Optical Path Delays in Series-Topology Inteferometric Sensor Arrays, Blotekjaer, et al.; <i>IEEE Journal of Lightwave Technology</i> , Vol. Lt-5, No. 2, Feb 1987, pages 229-234.
	A54	Quasi-Polarization-Independent Mach-Zehnder Coherence Modulator/Demodulator integrated in Z-Propagating Lithium Niobate, Hauden, et al.; <i>IEEE Journal of Quantum Electronics</i> , Vol 30, No. 10, October 1994, pages 2325-2331.
	A55	A GaA1As-GaAs Integrated Coherence Modulator, Khalfallah, et al.; <i>IEEE Journal of Lightwave Technology</i> , Vol 17., No. 1, January 1999, pages 103-107.
	A56	Non-quantum Cryptography for Secure Optical Communications; <i>International Trends in Optics and Photonics</i> ICO IV, pages 183-198.
	A57	Dispersion Compensation in Coherence Domain Multiplexed Communications Systems, Purchase, et al.; a white paper from a conference, pages 196-197.
	A58	Fiber Optic Hybrid Coherence Multiplexed/Subcarrier Multiplexing (CM/SCM) System for Microcellular Mobile Communications, Uehara, et al.; 1996 IEEE publication 0-7803-3250-4/96, pages 175-179
	A59	Coherence Multiplexing/Subcarrier FDM Transmission System with Bus Configuration, Uehara, et al.; 1995 IEEE publication reprint 0-7803-2553-2-95, pages 550-553.

EXAMINER	DATE CONSIDERED

